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Phospho-Nephrin(Y1193)) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3746a

Product Information

Application	DB, E
Primary Accession	O60500
Other Accession	NP_004637.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB28261
Calculated MW	134742

Additional Information

Gene ID	4868
Other Names	Nephrin, Renal glomerulus-specific cell adhesion receptor, NPHS1, NPHN
Target/Specificity	This Nephrin Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y1193 of human Nephrin.
Dilution	DB~~1:500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Phospho-Nephrin(Y1193)) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NPHS1 (HGNC:7908)
Synonyms	NPHN
Function	Seems to play a role in the development or function of the kidney glomerular filtration barrier. Regulates glomerular vascular permeability. May anchor the podocyte slit diaphragm to the actin cytoskeleton. Plays a role in

	skeletal muscle formation through regulation of myoblast fusion (By similarity).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Note=Predominantly located at podocyte slit diaphragm between podocyte foot processes. Also associated with podocyte apical plasma membrane.
Tissue Location	Specifically expressed in podocytes of kidney glomeruli

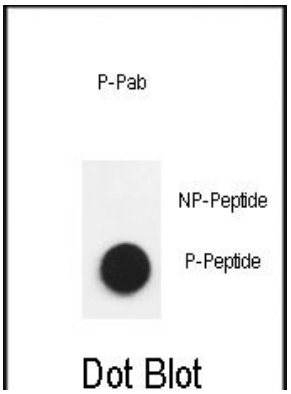
Background

This gene encodes a member of the immunoglobulin family of cell adhesion molecules that functions in the glomerular filtration barrier in the kidney. The gene is primarily expressed in renal tissues, and the protein is a type-1 transmembrane protein found at the slit diaphragm of glomerular podocytes. The slit diaphragm is thought to function as an ultrafilter to exclude albumin and other plasma macromolecules in the formation of urine. Mutations in this gene result in Finnish-type congenital nephrosis 1, characterized by severe proteinuria and loss of the slit diaphragm and foot processes.

References

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Tossidou, I., et al. J. Biol. Chem. 285(33):25285-25295(2010)
Machuca, E., et al. J. Am. Soc. Nephrol. 21(7):1209-1217(2010)
Aya, K., et al. Kidney Int. 57(2):401-404(2000)

Images



Dot blot analysis of anti-Phospho-Nephrin (Y1193) antibody Phospho-specific Pab (Cat. #AP3746a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.